

## **Uniform Test Selection Method**

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In protocol testing to avoid the complexity of "total" testing is common to select the "appropriate" test cases.

The test cases are derived from the formal descriptions (automatic selection) or from the protocol tester specialists (explicit selection). They apply the well-known test selection methods for functional, control and data-flow testing.

We propose the uniform selection method which exhibits the following properties :

- it can combine the experiences of the various formal description technics (Estelle, LOTOS and SDL FDTs),
- it can formalise the testing purposes and give some measure of the testing activity,
- it can apply in more phases of the protocol "life-cycle" namely in the design of the formal specifications (giving the testing information in the specification), in the selective derivation methods from the predefined formal specifications, in the selecting of the predefined test suites for the conformance and interoperability testing,
- it can analyze the data unit dependence to select the shortest test suite.